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THE MOTORIST'S LIFE-SAVER

The following is based on an article written by Leslie E. Wells, Member of the Institute of Journalists.

If a motorist had placed on his fingertip a piece of mineral looking like a chunk of moldy meteorite, having an iron-hard black core stranded with crystalline fibers, he would be unlikely to imagine the vital unseen role it plays in the smooth functioning of his car. We know this strange mineral as asbestos which is indispensable to motorcar manufacture.

The first world war put internal combustion engined vehicles to tests they had never faced before and proved beyond doubt the value of asbestos on such vehicles, particularly as a brake lining material. Many times every day, when a motorist steps on his brake pedal, his life depends on a small strip of asbestos or a small pad, in the case of disc brakes, to withstand terrific heat without disintegrating or losing its shape.

Brake linings can be grouped in two types, woven and molded — each basically made of chrysotile asbestos, which starts life as a band of fibrous material, occurring in rock formations as solid and dense as granite or marble. Its fibers, the only useful inorganic ones produced by nature, are obtained by crushing and subsequent milling operations to separate the fiber from the rock and to sort the fiber into various grades or lengths. The long fibers are spun and woven into an asbestos fabric forming the basis of woven linings. Shorter fibers are compounded with binders and fillers to make molded linings.

Most early designs of brakes for motor vehicles were of the external-contracting type and such brakes are still used in industrial machinery and, to some extent, as "parking" or "emergency" brakes on some vehicles. In such brakes, the shoe consists of a relatively thin metal band with one end held by a fixed pivot. The band almost completely encircles the outside of the brake drum and its free end is connected to a mechanism which, when suitably activated, tightens the band on the drum. The brake lining is fastened to the inside of the band and serves as the friction medium. Because the band and the lining must be flexible to make proper contact with the drum, woven linings are most suit-

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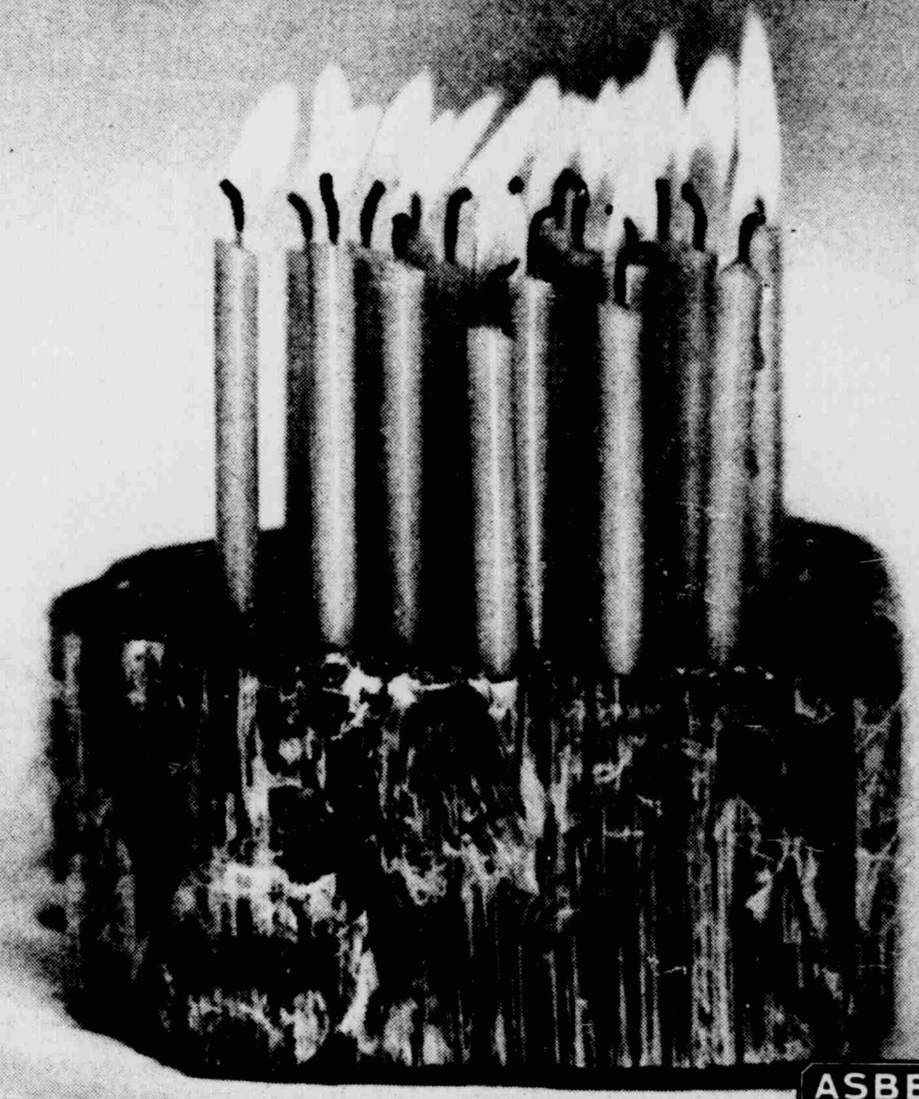
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able for brakes of this type which explains why the earlier linings were all of the woven construction. They were made in standard thicknesses and widths and furnished to users in rolls from which individual linings of the desired length could be cut. Woven linings are still favored for many applications where their flexibility permits fitting them to shoes and drums of widely varying radii.

Woven linings are made in several ways. One method is to weave a heavy tape of desired width and in considerable length, impregnate it with resins and other materials to impart the desired frictional characteristics and supply it in rolls to distributors and users who can cut it to suit their requirements. Another method is to weave the asbestos yarn into sheets of fabric up to two feet wide and of the desired thickness, impregnate the sheets and fix the impregnate by heat treatment and then slit the sheets into long strips of the desired width which are then supplied to the trade in the form of rolls.

Woven brake linings made by either method can be cut to specified lengths and formed under high pressure and moderate temperature to appropriate radii and, when so processed, are known as "semi-molded" linings. Because of the stiffness imparted during forming and the fact they are precut to a specified length, their use is limited to the particular brakes for which they are tailored although they do have slightly greater flexibility than fully molded linings.

As the service requirements of automotive brakes became more severe, it became apparent that internal-expanding brakes shoes, contacting the inner surface of the drum, offered great advantages over the external-contracting type brake. Since the shoes in such brakes are rigid and of fixed radius, the requirement for flexibility in the linings no longer applied. The first result was a rapid growth in the use of semi-molded linings. Next, the lining manufacturers recognized the potential for cost savings and better control of frictional characteristics in a fully molded lining. Such linings can be made from short, low cost asbestos fiber and a wide variety of resins and fillers, resulting in materials that can be tailored to give the precise performance required by almost any specific brake design. Elimination of several steps in the manufacturing process contributed further to the desirability of fully molded linings to the point where

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they have almost entirely supplanted woven or semi-molded materials in certain applications. With the advent of disc brakes, molded linings are taking over an even greater share of the market since the friction pads in such brakes are all fully molded products.

To give the motorist the highest possible degree of safety, new types of lining material are introduced from time to time, but before being marketed they are subjected to a rigorous series of practical tests. This work is done by large fleets of test vehicles fitted with instruments, making them, in effect, mobile laboratories. Some instruments record braking pressures; others, decelerations during braking tests; electronic devices register the brake lining temperature and the number and duration of brake applications. For every type of vehicle there is an appropriate test circuit up and down steep hills, specially mapped out to reproduce typical operating conditions.

Assuming that, during 3,000 miles of driving under normal road conditions, a lining has settled down satisfactorily, it is then given, at intervals between further road tests, a series of more rigorous checks on a specially constructed test track. The tests are many and cannot be described here, but in a typical test for "fade" — a condition set up by the overheating effect of repeated hard braking — the pedal effort is recorded in a series of fifty stops from 50 m.p.h. at one-minute intervals. After a pause of one minute, the cycle is repeated, but this time the car is accelerated to 30 m.p.h. and brought to a stop with a constant pedal effort every minute, a record being kept of the deceleration.

In addition to the road tests described, all large manufacturers of friction materials have extensive laboratories where precise testing of such materials can be carried out. One piece of equipment used in such laboratories involves a very heavy flywheel which is brought up to speed and then slowed down by the brake under test acting on a brake drum attached to the flywheel shaft. It is here that new materials are subjected to the most rigorous preliminary testing to determine whether it is worth while to proceed with fabrication of linings for road testing on actual vehicles.

Apart from its most dramatic contribution to motoring safety in the form of brake linings, asbestos has many other

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applications in cars. For example, it is used in clutch facings, in automatic gear boxes as liners of epicyclic gear bands and as a facing for clutch driving plates. It is also used as friction cones in some overdrive units.

Some cars have asbestos friction discs built into the steering and suspension units to introduce a controlled degree of friction or stiffness into the system. It plays a vital part in front suspensions and conventional spring shackle supports as washers to eliminate side play. In some vehicles, asbestos friction pads serve as interleaving buttons to precisely control friction between the leaves of leaf springs and to eliminate squeaking of such springs.

A large volume of asbestos goes into the making of cylinder head gaskets and it is ideally suited to this purpose because of its heat-resisting properties. It is also the basis of the gaskets used on exhaust and inlet manifolds. On some high quality cars an asbestos-based friction damper is fitted at the front end of the engine crankshaft to dampen torsional vibration. There have even been instances where vibration dampers of this kind have been fitted to cam shafts. Other uses include hood rests and door stops.

Every driver of a modern automobile owes a debt of gratitude to asbestos for its contribution to the efficient, reliable and safe operation of his highly complex vehicle.

NATIONAL BUREAU OF STANDARDS has announced a new procedure for assisting other U.S. Government agencies in the analysis of material and structural failures. All inquiries about or requests for this service should be directed to Mr. John A. Bennett, Coordinator of Material and Structural Failure Analysis for the Bureau. The types of analyses the technical personnel and laboratory facilities are equipped to handle include: the fracture of components in machinery and transportation equipment, corrosion failures (atmospheric, marine, soil, stress and microbial), failures and service life in large metal structures, problems and failures in building construction, problems dealing with rubber and with paper and problems in electrodeposition and metal coatings. The evaluation of the cause of failure often provides a basis for better design of structures and materials.

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Amosite in Concrete & Masonry Products

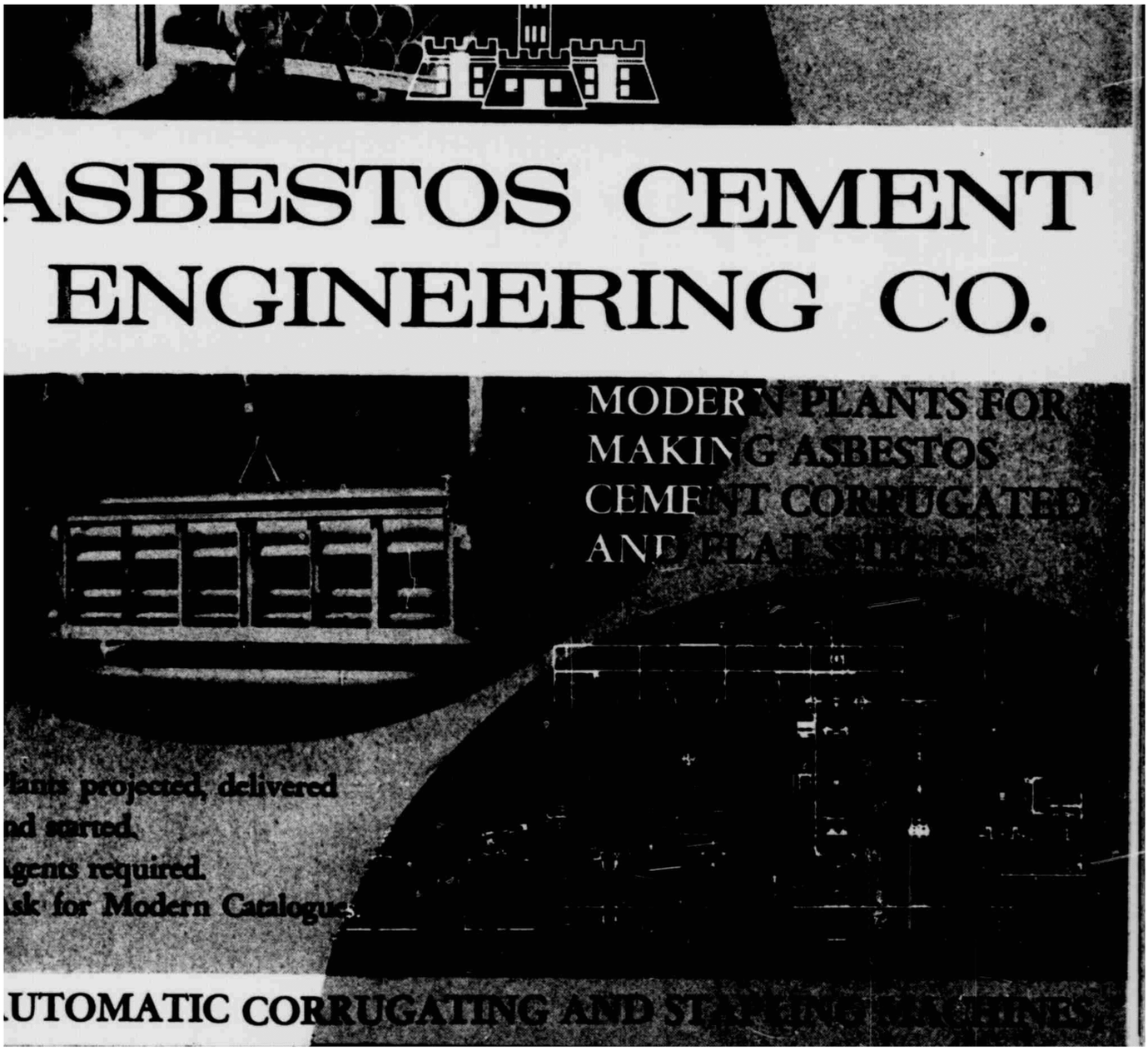
There has been a growing resurgence in the past decade of the use of Portland Cement compositions for exterior finishes on commercial, institutional and residential structures. Stucco (the common term for exterior Portland Cement finishes) is known to be a superior material for residential construction when it is properly applied. However, the use of Stucco has been limited to certain regions. For instance, it is not widely used in residential construction in the Midwest. Unfortunately, back in the 1920's magnasite products which were inferior to Stucco were sold and this material, in many instances, literally fell off the walls. Although the base of these inferior materials was not Portland Cement, as is the case with true Stucco, the end result was that "Stucco" became a derogatory name. Today Stucco is extremely popular for use in residential and commercial buildings in the Southwest, Southeast, Far West and Western Canada — and its usage continues to increase.

Contributing primarily to this growth are the new machine methods of application. In these mechanical processes, cement, sand, asbestos and water are mixed in a hopper. The finished mix is pumped through a hose to the point of application, which can be many stories above the ground. The mix is then passed through the delivery nozzle by means of compressed air and is sprayed onto previously installed metal lath.

Asbestos, such as short Amosite fiber, is a key ingredient in the fucntioning of this machine-applied Stucco system. Although the amount of asbestos added to the mix varies considerably, it averages from one to three percent. The asbestos fiber gives the mix a high degree of plasticity and enables it to flow evenly and smoothly from the hopper through the hose to the point of application. The asbestos fiber also allows the retention of a greater amount of water and thus provides the mix with longer periods of workability. The fibers also give considerable reinforcement to the finish after it has set, thereby minimizing shrink-cracking.

Stucco is considered by many commercial builders as one of the most desirable of all exterior finishes. It is low in cost, can be easily applied and creates a maintenance-free and highly durable finish. In the past few years, many decorative

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techniques have been developed and these exterior Portland Cement finishes are becoming more widely accepted. Among these developments is "marble-crete" in which fine chips of one color or multi-colored marble and other minerals and stones are embedded in the wet mix with a mechanical spraying device (seeder) before the Stucco sets.

Contruction experts believe that the addition of asbestos fibers to Portland Cement compositions will considerably upgrade and broaden the usage of concrete masonry finishes and also improve and strengthen other cement products such as concrete blocks and pressed or pre-cast concrete products.

The above is based on an article which appeared in the November 1967 issue of "Asbestos News," published by North American Asbestos Corporation.

"ASBESTOS-CEMENT" is the title of a new book written by *Harald Klos* which will be of interest to manufacturers and engineers. It discusses the development of processes for the production of asbestos-cement products and includes specifications for erecting complete plants. The data in the book covers physical and chemical properties, factors which determine the making and quality of the final product, the coherency between fiber diameter and mixture ratio which influences the optimum mixture, dimensions and heat consumption of autoclave plants for steam hardening of asbestos-cement, testing procedures and laboratory equipment.

This very complete and comprehensive book, published in German only, is available from Springer-Verlag for $22.50 per copy.

Mr. Klos is recognized as an authority on asbestos-cement machinery. He began his career in 1949 as a designer of water turbines for J. M. Voith A.G. and in 1966 he founded his own company to design and build industrial plants and machinery.

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BAUER

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NATIONAL GYPSUM COMPANY has completed its merger with MULTICOLOR CORPORATION. Multicolor will be structured into National's Gold Bond Building Products Division and will continue its present operations as an integrated unit under the general management of its president, William H. King.

Multicolor is headquartered in Hatfield, Massachusetts, and is a leading manufacturer of rotogravure printed, laminated and embossed vinyl wallcoverings, decorative vinyl pressure sensitive products, vinyl floor coverings, vinyls for commercial partitioning and specialty decorative products for consumer and manufacturing applications.

According to Colon Brown, Chairman and Chief Executive Officer of National Gypsum, "One of National's objectives is to become a principal supplier of all components which are used in enclosing space and which contribute to establishing the environment for which the space is intended. Accordingly, you may expect to see National Gypsum moving in logical related directions through further mergers or acquisitions as opportunities are developed to do so on a sound business basis."

NATIONAL GYPSUM/ERVIN INDUSTRIES—*National Gypsum Company* has reached an agreement in principle with the officers of *Ervin Industries* for the acquisition of the southern-based developer and builder of planned communities. Ervin Industries will operate as an independent division of National Gypsum and will continue under its present management. As a result of this acquisition, National Gypsum will be able to coordinate product development and product application geared to a massive, total community dimension rather than on a building-by-building or otherwise fragmented basis.

THE TWELFTH INDIAN STANDARDS CONVENTION will be held at Bhubaneswar, India, December 15-21, 1968. In addition to technical and general sessions, the Convention will schedule visits to industrial plants, historical sites and cultural and social functions.

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GSI/SIMPLICITY ENGINEERING—Directors of *General Steel Industries, Inc.,* St. Louis, Missouri, and *Simplicity Engineering Company,* Durand, Michigan, have agreed in principle on a plan for the acquisition of Simplicity by GSI through an exchange of stock. Under the plan, a maximum of 174,000 shares of GSI would be offered for all outstanding shares of Simplicity on an exchange ratio of 2.75 shares of GSI for each share of Simplicity.

GSI is a manufacturer of industrial equipment, including components for electrical power generating stations, rapid transit and railroad cars, and iron and steel mills.

Simplicity is a manufacturer of conveying, screening and crushing equipment used by many industries including aggregate, food, mining and basic metals.

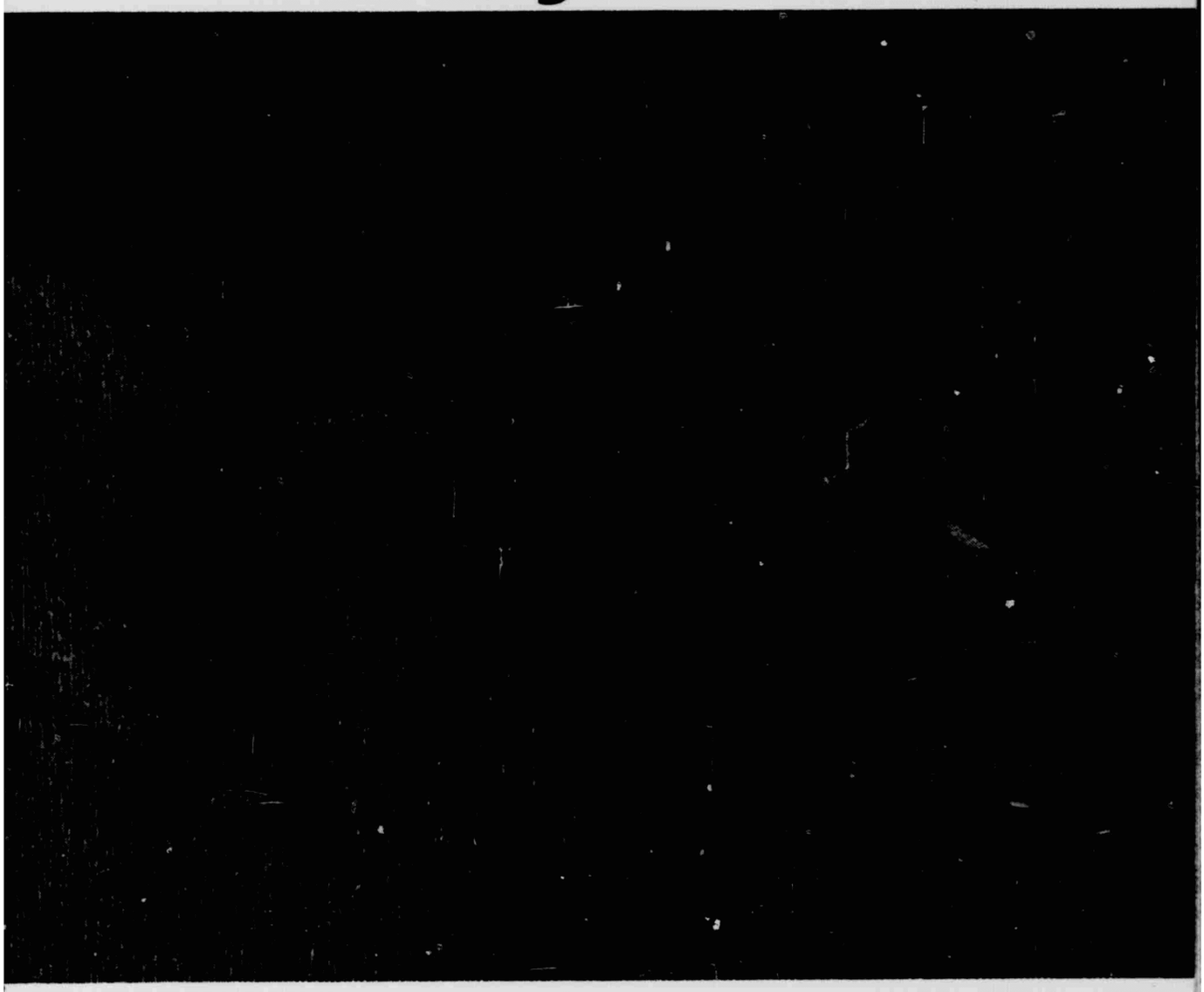
ILLINOIS CENTRAL INDUSTRIES, INC., parent company of Illinois Central Railroad, and ABEX CORPORATION, producer of cast metals, friction products, hydraulic equipment and railroad products, have agreed in principle to combine the two companies in an exchange of stock valuied at about $160-million. The merger agreement is subject to the preparation of a definitive agreement and the approval of such agreement by the boards of directors and the stockholders of both companies.

UNIROYAL, INC. will build an administrative, research, training and computer center in the Middlebury-Oxford area of Connecticut. Initially, the new complex will consist of three buildings on a 1,500-acre site. Two of the buildings — one to house administrative and computer activities and the other to be a personnel training center — are scheduled to be completed by the middle of 1970. No date has been set for completion of the third building which will combine the corporate research staff and product development facilities within the consumer, industrial and plastics products divisions.

This new center will serve as an adjunct to Uniroyal's corporate headquarters in New York City where the finance, advertising, public relations and legal staff will remain.

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Automobile Sales

JULY 1968 motor vehicle factory sales from plants in the *United States* totaled 773,085 (passenger cars—624,559, trucks and buses—148,526). The total for July 1967 was 530,830.

Motor vehicle factory sales from plants in *Canada* totaled 72,244 in July 1968 compared to 44,036 in July 1967.

U.S. IMPORTS of motor vehicles for the FIRST HALF OF 1968 were: new passenger cars—793,209, valued at $1,349,148,323; used passenger cars—4,200, valued at $5,821,785; trucks and buses—58,141, valued at $131,998,-816; and miscellaneous automotive parts—valued at $528,-500,438. The total value of automotive imports was $2,015,-469,362.

THE NATIONAL HOME IMPROVEMENT COUNCIL has published a booklet to assist home owners in planning their remodeling projects. The new booklet is entitled *"How To Start Your Home Improvement Project Wtih the Help of A Reliable Contractor"* and covers such topics as: why good planning is important, how to determine what improvements are most needed, the importance of detailed specifications, how to select a qualified contractor, tips on how to work with your remodeler, etc. The Council expects an initial printing of 100,000 copies of the booklet.

THE DELAWARE VALLEY CHAPTER of the *Acoustical Society of America* began its second season with a dinner-meeting on September 25, 1968. The main speaker of the evening was James H. Botsford, Noise Control Engineer, who discussed "Facts and Fallacies of Noise Control." The November 6, 1968, meeting will feature a talk by R. F. Misialek, of the Philadelphia Naval Shipyard, on "Limitations of Acoustical Instrumentation." Robert Alex Baron, a member of Citizens for a Quieter City, will discuss "Noise Pollution" at the meeting on December 11, 1968.

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FLINTKOTE

GAF CORPORATION has created a new marketing and product development unit to sell building materials and floor products to manufacturers of mobile homes, off-site low-cost housing units and other prefabricated shelters. Designated the *Construction Systems Unit,* the new unit will be managed by David L. Stokes. GAF's entry into the building systems field is facilitated by the ready availability of products and the existence of a national industrial marketing organization. The new unit will market TNA/MS roofing membrane, asphalt roof shingles, a variety of building siding, sound and weather insulating materials, asbestos-cement board, vinyl-clad gypsum panels, resilient vinyl floor covering and vinyl asbestos floor tile, along with the accessories needed for the installation and use of these products. New district sales offices will be maintained in Harrisburg, Pennsylvania; Atlanta, Georgia; Elkhart, Indiana; Dallas, Texas; and Los Angeles, California.

ASBESTOS PRODUCTS, INC., of St. Paul, Minnesota, selected preformed asbestos insulation to cover several miles of high temperature lines at the Allen S. King power plant, Lake St. Croix, Minnesota, which is owned and operated by Northern States Power Company. Asbestos Products had two problems to overcome: a tight schedule and the insulation of pipe up to 36 inches in diameter. The use of large, preformed sections of *"Unibestos®"* amosite asbestos fiber pipe insulation made it possible to complete the contract on schedule with fewer men and without any unnecessary overtime or delay. "Unibestos" is an incombustible asbestos pipe insulation that does not crumble, crack or shrink. It is recommended for use in applications where temperatures range as high as 1,500°F and is available in half-round and full-round sections to fit pipe diameters (O.D.) from one to thirty-six inches. "Unibestos" is manufactured by PITTSBURGH CORNING CORPORATION.

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Building

From: McGraw-Hill Information Systems Company

AUGUST 1968 contracts for future construction reached a new high for the second consecutive month and rose to $6,318,161,000 which is 20% above the year-ago amount. After a fairly steady first half, July brought a surge in both housing and nonresidential building. Although these categories eased back a bit in August, the gap they left was more than filled by nearly a billion dollars of contracts for utilities construction.

Residential building contracts totaled $2,294,938,000, an 11% increase over the year-ago value. August contracts for one-family building showed no improvement over the level reached several months ago. Virtually all of the recent strength in residential building has been confined to apartments.

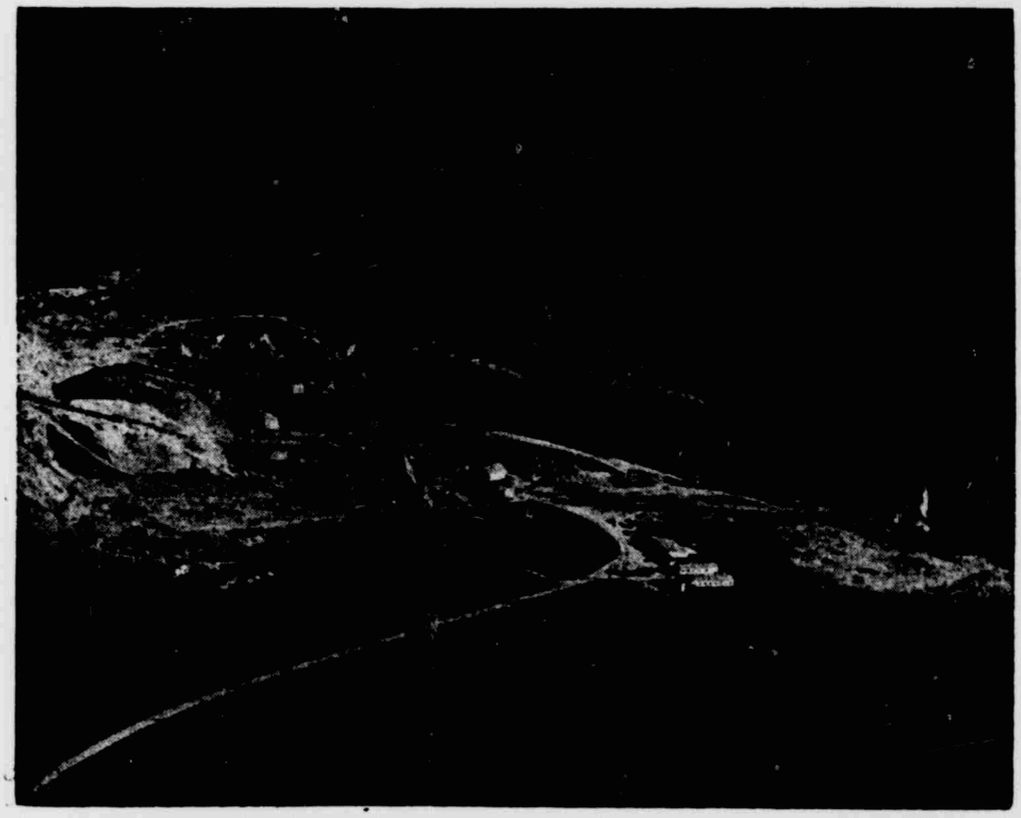
Nonresidential building contracts were valued at $2,128,360,000, a 15% gain over last August. In recent months commercial building has been supplying most of the nonresidential gain, while contracts for manufacturing plants are showing little change.

Nonbuilding construction contracts totaled $1,894,863,000, 41% above the year-ago value. Four big electric generating facilities with a combined contract value of more than $750,000,000 provided most of the gain. Street and highway projects declined.

A RESCUE DEVICE, developed to safeguard crews assembling NASA's Saturn V moon rocket, may in the future also save lives of trapped miners or injured construction workers. Incapacitated workmen inside the booster's 64-foot-deep liquid oxygen propellant tank can be evacuated through the only exit, an 18-inch-wide hole at the top, with a hinged stretcher developed by Mason-Rust, prime support contractor on Saturn V. Mason-Rust is jointly operated by *The Rust Engineering Company, a division of Litton Industries,* and *Mason & Hanger-Silas Mason, Inc.*

After the stretcher is lowered through the opening, its two sides may be separated like tongs, placed under the patient and then locked into place without moving the patient. The patient is strapped under a fabric covering which holds him firmly for vertical lift or other carrying positions.

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ASBESTOS-CEMENT PROMENADE TILE is described in a new brochure published by *Atlas Asbestos Company,* Montreal, Canada. This tile protects asphalt and built-up roofing finishes from roof traffic damage, allows maximum utilization of space, protects from fire, installs quickly and easily and provides economy and durability. Promenade Tile can be laid on roofing structures where it is virtually impossible to put heavier materials. Atlas also has a booklet available which lists its various *asbestos-cement building materials.*

ERIEZ MAGNETICS has issued a new 48-page illustrated booklet concerning uses of *permanent and electromagnetic equipment.* The booklet indicates how Eriez magnetic separators are used in processing lines, how MAGNAmation equipment assists in the conveying, transferring, controlling, elevating, repositioning, holding and reorienting of ferrous materials or finished parts, how electromagnetic vibratory feeders accurately feed measured amounts of free-flowing materials and how bin (unit) vibrators maintain the smooth flow of materials from bins.

STEPHENS-ADAMSON MFG. CO., manufacturers of bulk handling equipment, has a new 32-page catalog on its line of *Belt Conveyor Idlers and Pulleys.* The literature is designated "Catalog 568" and covers the application and selection of the Stephens-Adamson line of Curve Crown Pulleys and Idlers and accessory items. To simplify selection and dimensional comparison, the idlers are arranged according to their CEMA classifications and an Idler Interchangeability Chart is shown. The Pulley section covers the S-A line of welded end and Spun-End Pulleys and exclusive precision ground Squeeze Lock Hubs. Pulley selection, shaft load tables, pulley weights and lagging data are provided.

JOHN AUTRY, Group Product Manager for Transite Non-Pressure Pipe, Johns-Manville Corporation, has been appointed Chairman of the Public Relations Committee of the *Water Pollution Control Federation.*

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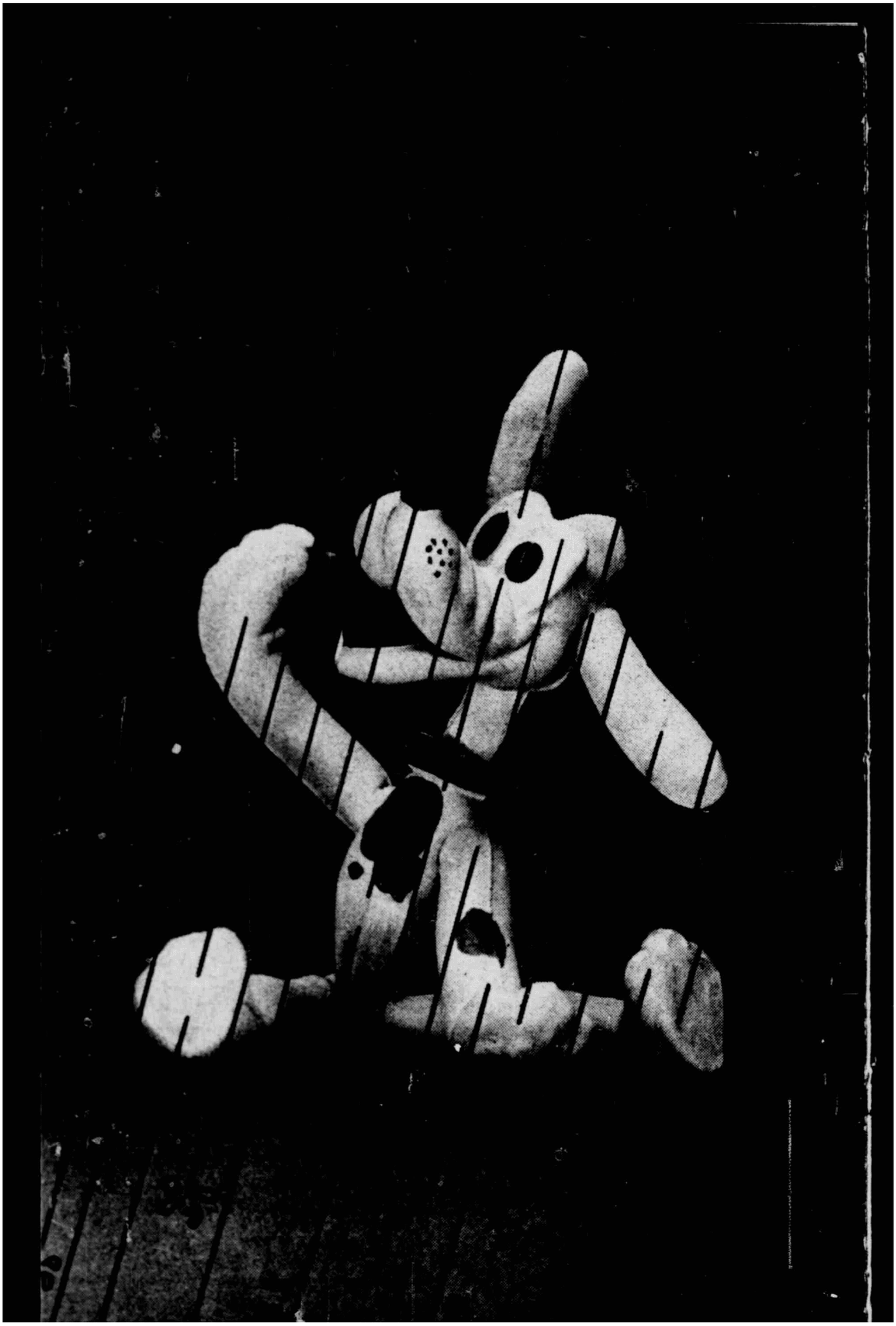
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MARKET CONDITIONS

General Business.

While the overall rate of growth in the economy has slowed down, there are still no signs of a precipitous decline which was feared by some economists during the world-wide financial crises earlier this year. In fact, except for steel production, most key indicators are holding steady or showing some upward movement at this time. Automobile production is ahead of last year's figure, the rate of housing starts has improved appreciably over the past few months and personal income is up. The operating rate of manufacturing industries has fallen somewhat reflecting the incomplete utilization of our expanded manufacturing plant capacity in this period of static or slowly growing demand.

Partial withdrawal of Soviet-bloc armies from Czechoslovakia has eased tension in that area to some degree but it is obvious the Czechs must have made substantial changes in their "reform" programs in order to halt further Soviet military incursions aimed at suppressing such programs.

The Paris peace talks have been non-productive thus far and it would be surprising to see any radical change in this situation until after the November Presidential election.

The Presidential campaigns are getting into full swing and, while Mr. Nixon seems to hold a slight edge at this point, no firm predictions as to the outcome can yet be made. Problems within and without the U.S. are such that some sudden, unexpected development in either area could result in a change in sentiment sufficient to influence the final result.

Asbestos—Manufactured Goods.

Asbestos Textiles: Demand for asbestos textiles is somewhat lower than was the case during the first half of the year. Sharply curtailed activity in the steel industry has affected this market to some extent and may continue to do so for some months to come. A rising price trend is noted in some sectors of the industry.

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ALL TYPES OF ASBESTOS CEMENT MACHINERY

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Asbestos Brake Lining: The replacement market for brake linings is quite strong and, as new car production increases with completion of the model changeovers, the OEM market is showing rapid improvement. So long as new car sales hold up and the total number of vehicles in operation increases, the future looks very good for the entire friction materials industry.

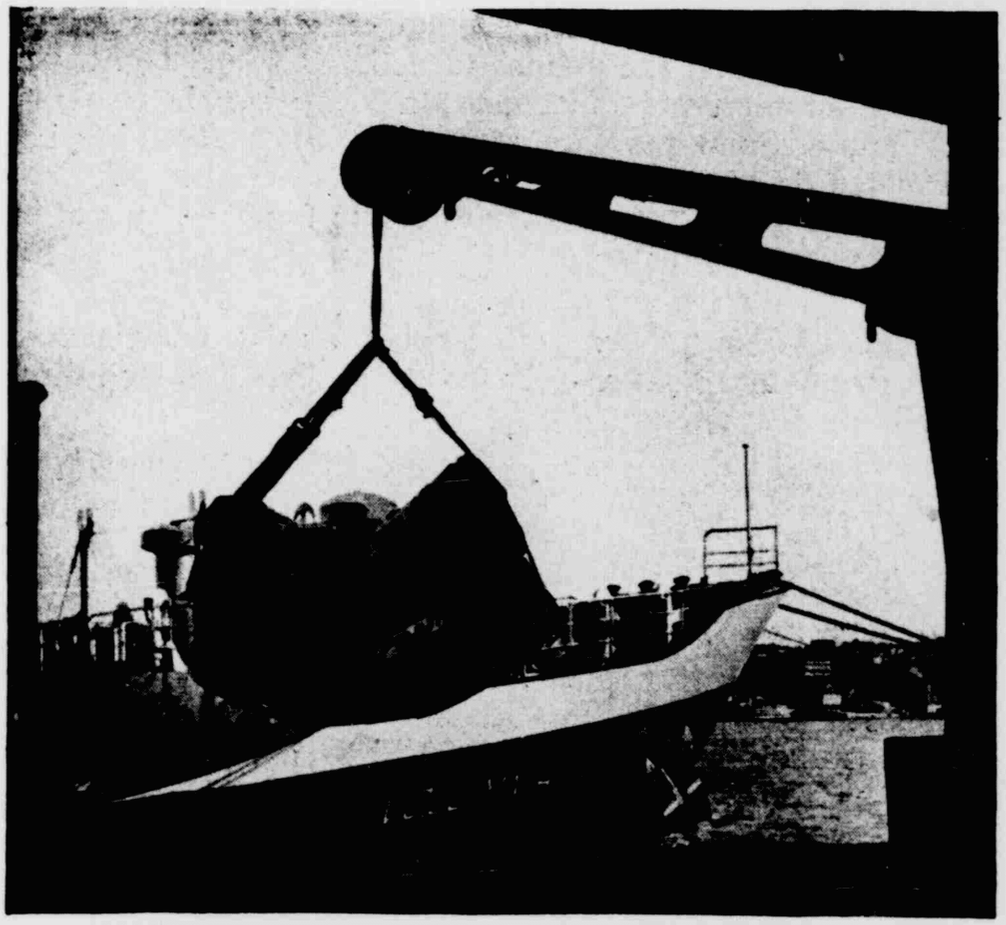
Asbestos Felt: There has been no substantial change in this market since the first half of the year although sales are higher than they were this time last year. Demand is steady but prices are not at a really satisfactory level.

Asbestos-Cement Flat Sheets: The demand for flat sheets remains the same as in the first half of the year and the volume of sales in 1968 is expected to be less than in 1967.

High Pressure Insulation: In certain areas during the past summer, public utilities were hard pressed to meet increasingly heavy loads imposed by the demands of air conditioning. As such loads increase and use of electricity for industrial power and in private housing rises, the public utilities are practically all in process of increasing their capacity. This accounts for the current strong market for high pressure insulations and for predictions of continued strength in this market over the long term.

Asbestos-Cement Shingles, Roofing & Siding: The continuing increase in the rate of new housing starts offers hope that the market for these materials will improve in the near future. In view of the high cost of mortgage money, pressures for lower costs are stronger than ever in the housing field. The cost advantages of asbestos-cement products might well be expected to lead to their increasing use under these conditions, as supplantives for more costly materials. Aggressive selling to fully exploit this situation could conceivably improve the market position of asbestos-cement products for some years to come.

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Asbestos Magazine, 1968, October 1968
ACL Doc 12618 · Page 33 of 56
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Asbestos-Cement Pipes: The market for sewer and drain pipes is strong and the volume of activity is at a high level. Demand for all types of asbestos-cement pipes in the East and Central Southwest are steady but some softening has been noted on the West Coast. If current conditions continue through the fourth quarter, total volume for 1968 should be about the same as that of last year.

Arizona Filter Fiber: The market for this material continues steady and total sales for the year should exceed those of 1967 by a small margin.

The above comments have been made by various informed executives in the industry. All comments are welcome.

CANADIAN GOVERNMENT SPECIFICATIONS BOARD has announced that "Specification 34-GP-3a for Shingles: Asbestos Cement, Roofing" has been cancelled as of August 2, 1968, because it describes a material that is no longer procured by the Government.

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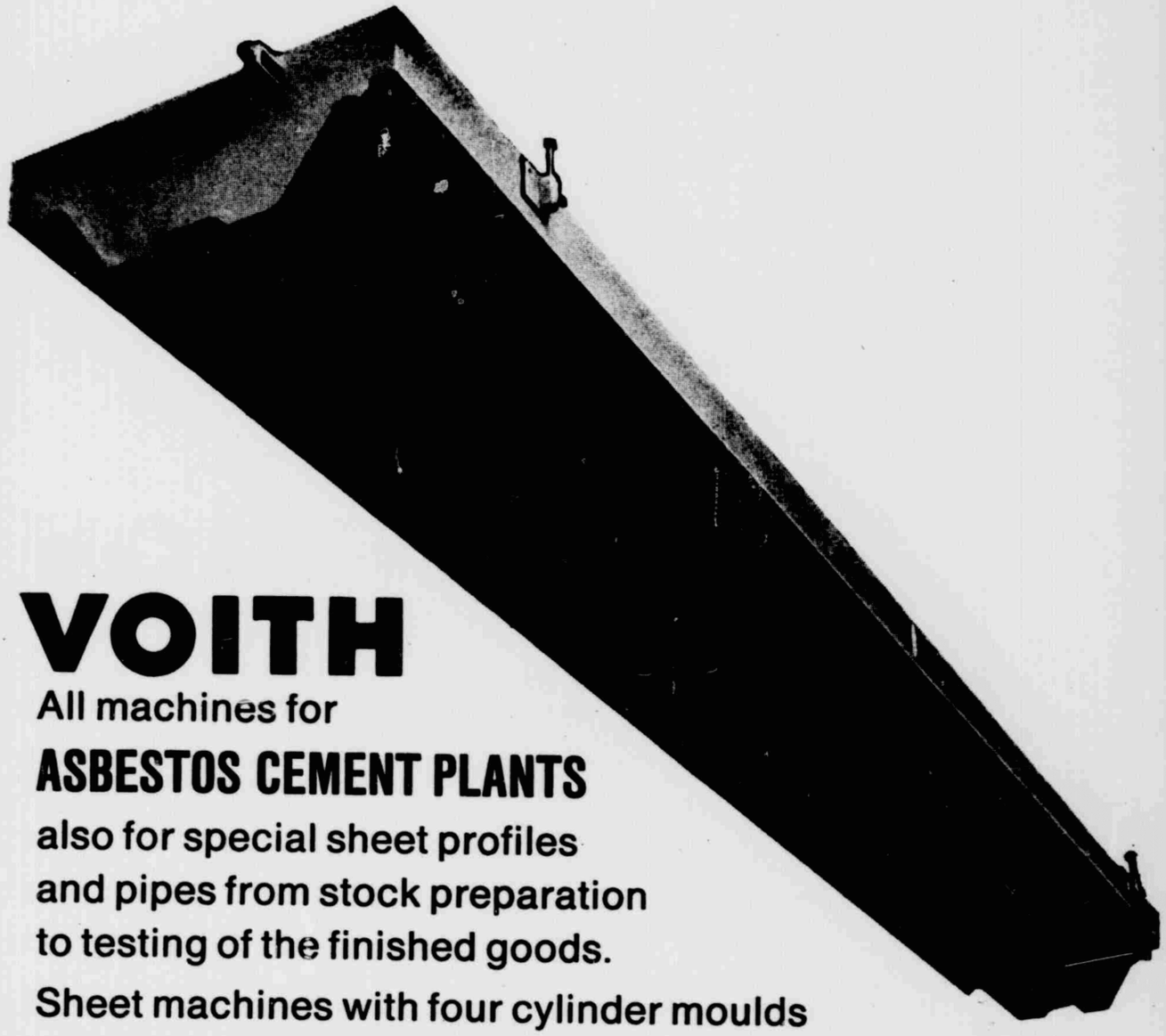
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P. D. JAPP, Vice President-Corporate Relations for the *Philip Carey Corporation,* died suddenly on September 9, 1968, while on a business trip in St. Louis, Missouri. Mr. Japp was responsible for trade relations, architectural representatives, national account representatives and relations between Philip Carey and other Glen Alden companies.

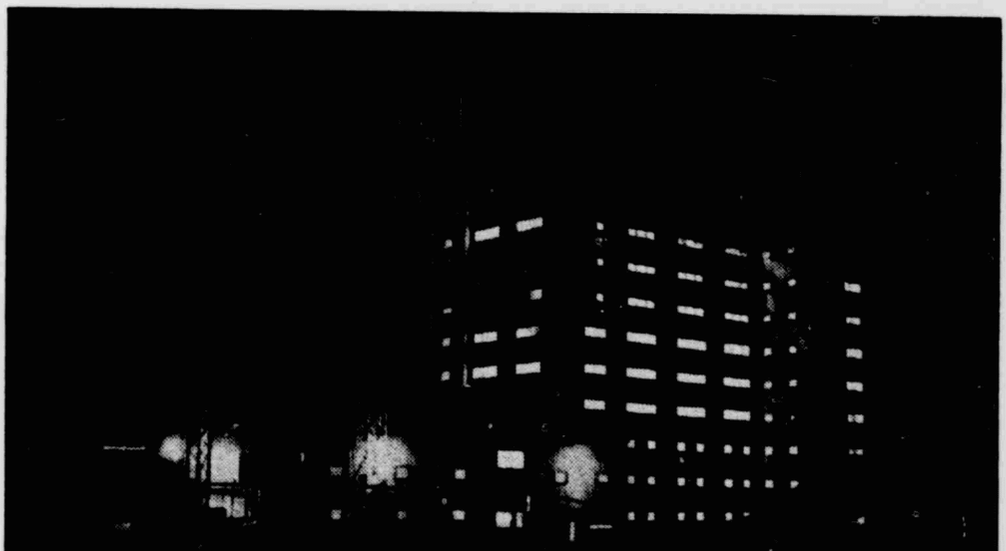
Among other organizations, he was a member of the New York Building Congress, the Trade Relations Association and the National Association of Insulation Contractors.

PROCESSING & PUMPING UNIT—The Chemical Equipment Division of *The Carbone Corporation* is offering the patented *EiLi Milling Pump* which simultaneously handles and processes both intermediate and final products. The pump offers the advantage of providing large volume pumping of viscous liquids and of liquids with suspended solids (slurries) and, at the same time, processing the solids. The processing treatments that can be achieved include milling, crushing, blending, mixing, chopping, defibering and cutting.

SYSTEMS MODULE STANDARD—Greater efficiency and increased economy for the building industry came nearer reality with the recent Committee approval of a standard whose application would eliminate much of the on-site cutting and fitting of building materials. "Standards for a Major Systems Planning and Coordination Module for Building Systems and Components" has been drafted by a subcommittee of the *United States of America Standards Institute Standards Committee A62* and establishes a range of coordinated dimensions to control horizontal sizes of building components and systems. It has been approved by a consensus of the members of Committee A62 and has been submitted to the USASI Construction Standards Board for review.

Also, additional standards are under development which deal with fundamental industrial requirements such as coordination principles and applications, tolerances and fits, join-

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PRODUCTION

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 8,520,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the FIRST QUARTER of 1968.

Canada—JULY 1968 asbestos production amounted to 114,394 short tons (Quebec—93,377; Newfoundland, Ontario and British Columbia—21,017). This compares with the July 1967 total of 103,646. (Dominion Bureau of Statistics, Ottawa)

Msauli Asbes Beperk produced 25,762 short tons of asbestos fiber during the year which ended June 30, 1968. The value of sales for this same period reached R1,737,096.

Construction has begun on the new mill and this project is expected to be completed by July 1969.

Fars and Khuzestan Cement Company, Teheran, Iran, has built a new factory in Doroud, Iran. The new factory will operate under the name *"Farsit Factory"* and will manufacture asbestos-cement sheets and pressure pipes. The equipment for this new plant has been supplied by the R.C.M. COMPANY of Torino, Italy.

Cassiar Asbestos Corporation Limited has reported that production from the *Cassiar Mine* has been reduced to the scheduled rate of 75,000 tons of asbestos fiber per year, from 92,000 tons in 1967. Both costs and sales are being maintained at satisfactory levels and this is expected to continue for the balance of 1968.

A commercial rate of production was reached at the *Clinton Mine* in April and the operating profit during June approximated $200,000. By the end of the year the mill will have sufficient equipment to produce 300 tons of fiber per day.

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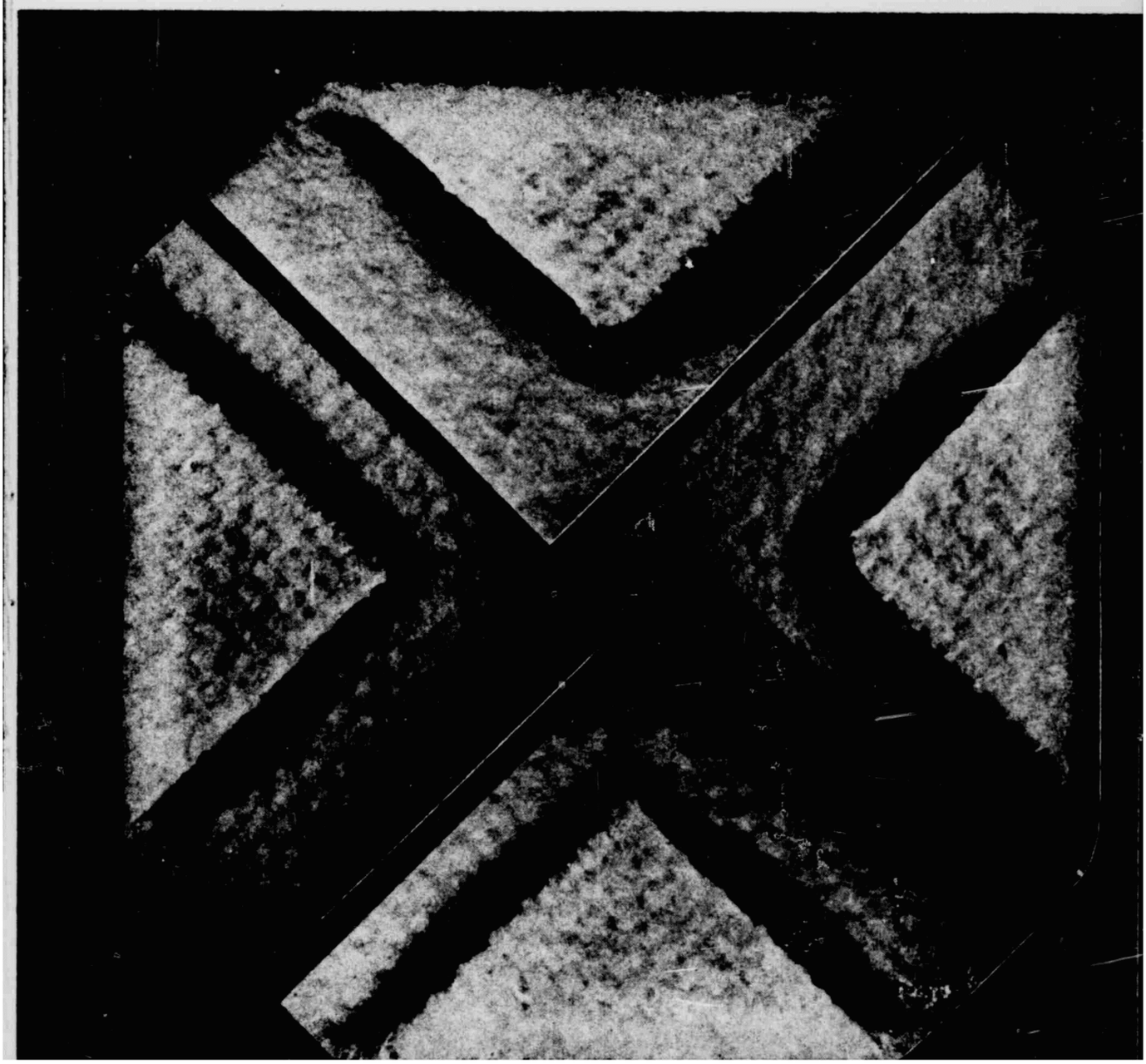
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IMPORTS & EXPORTS

Exports From U.S.A.

(Figures from U.S. Bureau of the Census)

		Short Tons	
Unmanufactured Asbestos:			**MAY 1968**
Crude & Spinning Fibers		139	$ 31,847
Non-Spinning Fibers		1,021	125,991
Waste & Refuse		1,323	116,584
		2,483	$ 274,422
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	3,729,670	$ 330,345
Other A-C Articles	Lb	530,349	61,918
Gaskets & Packing	Lb	377,352	500,767
Textiles & Yarns	Lb	752,990	136,159
Mfrs. other than Friction Materials		..	452,845
Clutch Facings & Linings for auto. use	No	147,526	129,357
Clutch Facings & Linings, Other	No	15,292	27,118
Brake Linings for automotive use	Lb	570,508	382,081
Brake Linings, Other	Lb	184,913	139,462
			$2,160,082
Unmanufactured Asbestos:			**JUNE 1968**
Crude & Spinning Fibers		147	$ 24,903
Non-Spinning Fibers		762	129,368
Waste & Refuse		1,867	163,332
		2,776	$ 317,603
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	4,096,463	$ 323,702
Other A-C Articles	Lb	484,951	98,997
Gaskets & Packing	Lb	416,887	453,766
Textiles & Yarns	Lb	374,429	157,118
Mfrs. other than Friction Materials		..	409,849
Clutch Facings & Linings for auto. use.	No	124,156	103,871
Clutch Facings & Linings, Other	No	19,323	27,022
Brake Linings for automotive use	Lb	528,365	336,056
Brake Linings, Other	Lb	136,474	113,048
			$2,023,429

Russia exported 285,200 tons of asbestos in 1967 which compares with 256,800 tons in 1966.

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Exports From Canada

(Published by Dominion Bureau of Statistics) **MAY 1968**

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	2	1,335	14,371	41,139
United Kingdom	..	1,060	9,727	6,352
South America	..	42	4,330	1,235
Central America & Mexico	..	39	3,368	360
Europe	1	986	15,696	10,697
Japan	9	283	3,345	6,363
Other Countries	..	1,215	10,419	4,355
	12	4,960	61,256	70,501

Total Unmanufactured Asbestos—136,729 Valued at—$18,473,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 28,000
Asbestos-Cement Building Materials	116,000
Asbestos Basic Products, Other	75,000
	$219,000

JULY 1968

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	10	989	11,155	31,975
United Kingdom	..	570	7,023	6,298
South America	..	..	5,496	1,262
Central America & Mexico	..	87	2,715	616
Europe	2	865	13,652	5,836
Japan	2	208	2,198	2,931
Other Countries	..	320	5,768	2,837
	14	3,039	48,007	51,755

Total Unmanufactured Asbestos—102,815 Valued at—$13,617,000

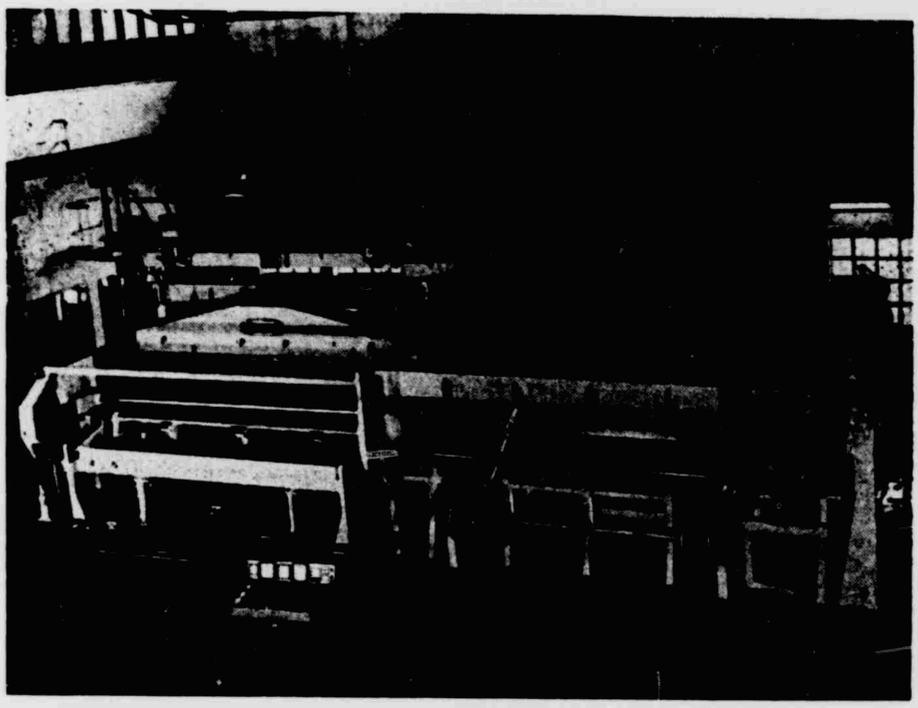
Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 94,000
Asbestos-Cement Building Materials	260,000
Asbestos Basic Products, Other	114,000
	$468,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

Joseph N. Kuzmick, Vice President, Manhattan Rubber Division, Raybestos-Manhattan, Inc., Passaic, New Jersey, October 15.

David E. Kelley, President, Kelley Asbestos Products Company, Kansas City, Missouri, October 16.

T. T. Tigert, Consulting Engineer, Cassiar Asbestos Corporation Limited, Toronto, Ontario, Canada, October 16.

Wm. F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

Miss Frances E. Mett, President & Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.

J. G. Mooney, Industrial Relations Manager, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, October 18.

Irl W. Rose II, in charge of divisional advertising & promotions, GAF Corporation, New York City, October 18.

Charles P. Miller, Treasurer, Scandura, Inc., Charlotte, North Carolina, October 20.

R. Dodds-Hebron, Executive Vice President & Production Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, October 22.

James C. Murphy, Director of Marketing, Floor Products Division, GAF Corporation, New York City, October 23.

Francis E. Dutcher, Vice President & General Manager, Building & Flooring Materials Division, Johns-Manville Corporation, New York City, October 24.

John H. Steiner, Chairman of the Board, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, October 24.

Boris A. Stern, Corporate Director of Quality Control, Philip Carey Corporation, Cincinnati, Ohio, October 24.

James W. Liddell, President, Armstrong Contracting and Supply Corporation, Lancaster, Pennsylvania, October 26.

Richard W. Henry, Director of Sales, Industrial Insulations, Building & Industrial Products Division, GAF Corporation, New York City, October 27.

J. R. Murdoch, Mine Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, British Columbia, Canada, October 27.

Lindsay F. Johnson, Director, Hedman Mines Limited, New York City, October 28.

H. C. Morton, Vice President, Thermoid Division—Russell Works, H. K. Porter Company, Inc., Middletown, Connecticut, October 28.

H. R. Palmer, Vice President-Assistant to President, Philip Carey Corporation, Cincinnati, Ohio, October 28.

Walter R. Foote, Director of Manufacturing, Floor Products Division, GAF Corporation, New York City, October 30.

Max E. Meyer, Secretary, North American Asbestos Corporation, Chicago, Illinois, October 31.

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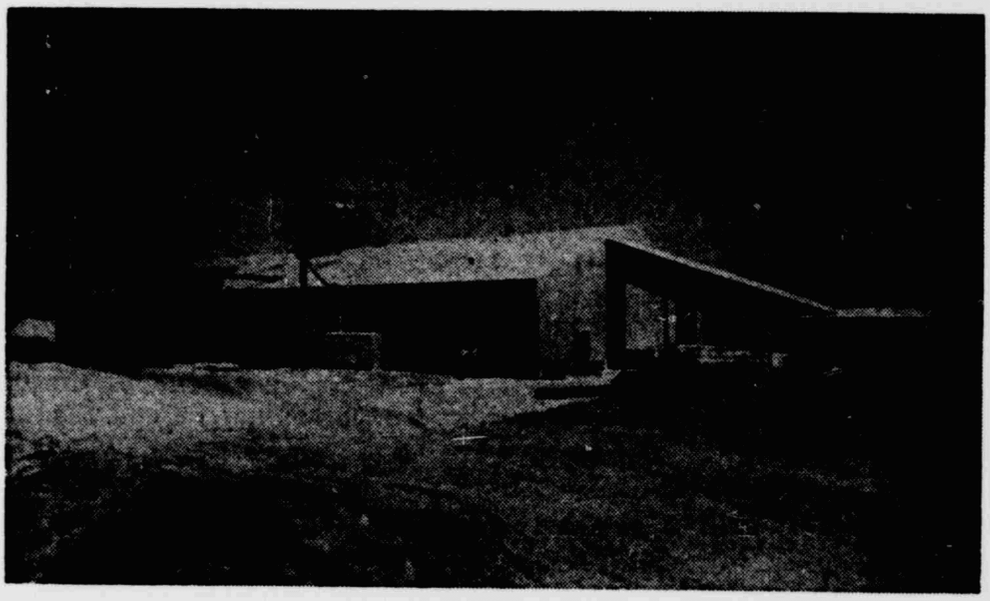
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MINES AND MILL IN GILA COUNTY

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John F. Corcoran, President, Chembest Division, Unarco Industries, Inc., Chicago, Illinois, November 2.

Kenneth T. Dawes, Vice President, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, November 2.

J. Conrad Lavigne, Vice-President & Director, Hedman Mines Limited, Timmins, Ontario, Canada, November 2.

Clark A. Bailey, Marketing Manager, Southern Region, Pipe Division, Johns-Manville Corporation, New York City, November 3.

Antoinette Ozurovich, Secretary-Treasurer, Atlantic Asbestos Corporation, New York City, November 3.

Dirk Salomons, Director & President of the Board, Asbestcementindustrie Asbestona N.V., Amersfoort, Holland, November 5.

Dr. Robert J. Merrill, President & General Manager, Carey-Canadian Mines Limited, East Broughton Station, Quebec, Canada, November 6.

C. W. Hanslip, Chairman & President, Standco Industries, Inc., Houston, Texas, November 8.

Dr. R. Gaze, Director, The Cape Asbestos Company Limited, London, England, November 9.

Monte C. Carpenter, Vice President & General Manager, Building Products Group, The Flintkote Company, New York City, November 12.

Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.

W. B. Callan, Plant Manager, Normandie Mine, Asbestos Corporation Limited, Thetford Mines, Canada, November 14.

Don L. Hinmon, Vice President for Pipe Division, Johns-Manville Corporation, New York City, November 14.

Karl V. Lindell, Chairman of the Board of Canadian Johns-Manville Company Limited & Vice President, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, Canada, November 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

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PERSONNEL NEWS

ASBESTOS CORPORATION LIMITED

JOHN A. SARGENT—appointed to the Board of Directors and to the Executive Committee of the Board of Directors (is Vice President-Finance and a member of the Board of Directors of General Dynamics Corporation), FREDERICK R. KEARNS —appointed to the Board of Directors (is President of Canadair Limited).

THE BAUER BROS. CO.

DANIEL R. SHOUVLIN, JR.—Chief Executive Officer & President, J. C. SHOUVLIN—continues as Chairman of the Board, PAUL R. ULLIMAN—Secretary & Treasurer, L. J. JOHNSON—Controller, A. J. HORSTMAN—Technical Assistant to the President, ROBERT R. RIZER—Administrative Assistant to the President, CHRIS LOHNES—Administrative Assistant to the Executive Vice President, ROBERT RINE—Manager of Machinery Division, RICHARD LAWSON—Sales Manager-Industrial Division, RALPH CLOUSE—Plant Engineer.

PHILIP CAREY CORPORATION

ANCIL E. WYNE—Corporate Manager of Labor Relations, BILLY H. SCREWS—Plant Manager of the Miami-Carey plant in Swainsboro, Georgia, T. D. TILLMAN—Sales Manager of the Miami-Carey Western District, W. F. O'BRIEN—Sales Manager of the Philip Carey Los Angeles District for Building Materials.

GAF CORPORATION

C. JOSEPH HYLAND—retiring as Corporate Secretary, HERBERT L. ABRONS—Corporate Secretary (will retain position of Counsel of the Corporation), JOSEPH J. KLIMAS—Director of Quality Control, Building Products Division, DR. FRED J. GAJEWSKI Director of Shareholder Relations.

JOHNS-MANVILLE CORPORATION

WILLIAM P. ALBE—Assistant to the Vice President for Production, JAY F. BAKER—Product Group Manager, Pressure Pipe succeeding CHARLES G. (BUD) TOPPING—who has retired. HENRY S. GOODSPEED — Product Manager, Drain Pipes.

SPRINKMANN SONS CORPORATION

WILLIAM E. SPRINKMANN—President, ERNEST S. SPRINKMANN, JR.—Executive Vice President, KENNETH KARN—Vice President, JOHN DOWLING—Secretary-Treasurer, JOHN K. LOCHER—Assistant Secretary.

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ASBESTOS STOCK QUOTATIONS

Close—September 30, 1968

Abex	44¼
Advocate	*$3.35
Asarco	71
Armstrong Cork	78⅛
Asbestos Corp.	*$22.75
Bendix	47⅞
Bendix (pfd 3)	76½
Carlisle	30¼
Cassiar	*$16.25
Certain-teed	36½
C-teed (pfd .90)	36⅛
Conwest	*$11.00
Flintkote	34
F-kote (pfd-A 4.50)	96¼
F-kote (4-pfd 4)	66½
GAF	27¾
GAF (pfd 1.20)	36⅛
Garlock	23⅛
Glen-Alden	14¾
G-Alden (pfd 3.15)	112
G-Alden (pfd 3)	102
G-Alden (pfd 2.25)	52¾
Grace	45⅛
Gulf & Western	45⅞
G&W (pfd 1.75)	144
G&W (pfd 3.50)	181
G&W (pfd 3.87)	77¾
G&W (pfd 5.75)	76⅜
Johns-Manville	75¼
Maremont	21
National Gypsum	69⅞
Natl Gypsum (pfd 4.50)	75
Patino	*$34.50
Porter (pfd 5.50)	84
Raybestos	59¾
Unarco	15½
Union Carbide	43¼
Uniroyal	63¾
Uniroyal (pfd 8)	126¼

*Canadian currency

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ASBESTOS PRICES

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of August 1, 1968) U. S. Dollars

No. 1 Crude	$1,410.00	to	$1,650.00
No. 2 Crude	700.00	to	950.00
AAA	..		800.00
Group No. 3 (non-ferrous filtering-plastic)	425.00	to	700.00
Group No. 4 (non-ferrous filtering-plastic)	400.00	to	500.00
Group No. 5 (non-ferrous filtering-plastic)	385.00	to	425.00
Group No. 6 (non-ferrous plastic)	..		250.00
Group No. 7 (white shorts)	65.00	to	90.00

CANADA— Per Ton of 2,000 lbs. f.o.b. Mine

(As of April 1, 1968) Canadian Currency

Crude No. 1	$	..	$1,410.00
Crude No. 2	..		760.00
Group No. 3 (spinning fiber)	367.00	to	600.00
Group No. 4 (shingle fiber)	201.00	to	341.00
Group No. 5 (paper fiber)	143.00	to	169.00
Group No. 6 (waste, stucco or plaster)	..	to	104.00
Group No. 7 (refuse or shorts)	45.00	to	87.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. North Vancouver, B.C.

(As of January 1, 1968) Canadian Currency

AAA grade (non-ferrous spinning fiber)	$ 810.00
AA grade (non-ferrous spinning fiber)	643.00
A grade (non-ferrous spinning—Canadian Group 3)	484.00
AC grade (asbestos-cement—Canadian Group 4)	345.00
AK grade (shingle fiber—Canadian Group 4)	241.00
CP grade (shingle fiber—Canadian Group 4)	220.00
AS grade (shingle fiber—Canadian Group 4)	200.00
CT grade (shingle fiber—Canadian Group 4)	195.00
AX grade (shingle fiber—Canadian Group 5)	177.00
CY grade (shingle fiber—Canadian Group 5)	126.00
AY grade (shingle fiber—Canadian Group 5)	126.00

VERMONT— Per Ton of 2,000 lbs., f.o.b. Morrisville, Vermont

(As of August 1, 1968) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 319.00	to	$ 342.00
Group No. 4 (shingle fiber)	186.00	to	296.00
Group No. 5 (paper fiber)	132.00	to	156.00
Group No. 6 (waste, stucco or plaster)	..		96.00
Group No. 7 (shorts & floats)	41.50	to	80.00
Group No. 8 (shorts)	..		26.50

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U.S. Documents—The following reports are available at $3.00 per paper copy and 65c per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Virginia 22151:

AD-667 477—Structural Design Concepts for the Efficient Utilization of Fibrous Composite Materials, by B. W. Rosen & N. F. Dow;

AD-667 901—Investigation of Micromechanical Behavior of Fiber Reinforced Plastics, by J. Haener, et al;

AD-668 477—Application of the Plate Twist Test to Laminated Composites, by J. M. Whitney;

AD-670 853—Aircraft Ground Flotation Analysis Procedures—Paved Airfields, by D. E. Creech & D. H. Gray.

AD-671 851—A Research Study on Internal Corrosion of High-Pressure Boilers, by P. Goldstein & C. L. Burton;

AD-672 094—Optimum Open Pit Mine Production Scheduling, by T. B. Johnson;

C-67-03—Piping and Tubing Technology, A Compilation.

LA-3834-MS—Total Hemispherical Emissivity Measurements by the Heat Pipe Method, by J. E. Deverall;

N67-34820—Investigation of Fiber Strengthened Cast Cobalt-Base Alloys, by R. A. Rosenberg & J. J. Ryan;

N68-11698—The Evaluation of the Strength of Fiber-Reinforced Composites, by L. S. Shu;

Also available from the Clearinghouse are NASA SP-5909 (01)—Insulation Tools and Techniques (20c), NASA SP-5910 (02)—Machine Tools and Fixtures (20c) and NASA TECH BRIEF 68-10162—Asbestos and Inconel Combined to Form Hot-Gas Seal (15).

The AC/M is a magazine devoted primarily to asbestos-cement technology. It circulates in many countries and is published in English, in Turin, Italy. Subscriptions can be obtained by writing to AC/M, 24 Via Bianze, Turin, Italy. Subscription fee for one year in the U.S.A. is $20.00. There are reduced rates for two- and three-year subscriptions.

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